

Safe Flight 21 Implementing Broadcast Services

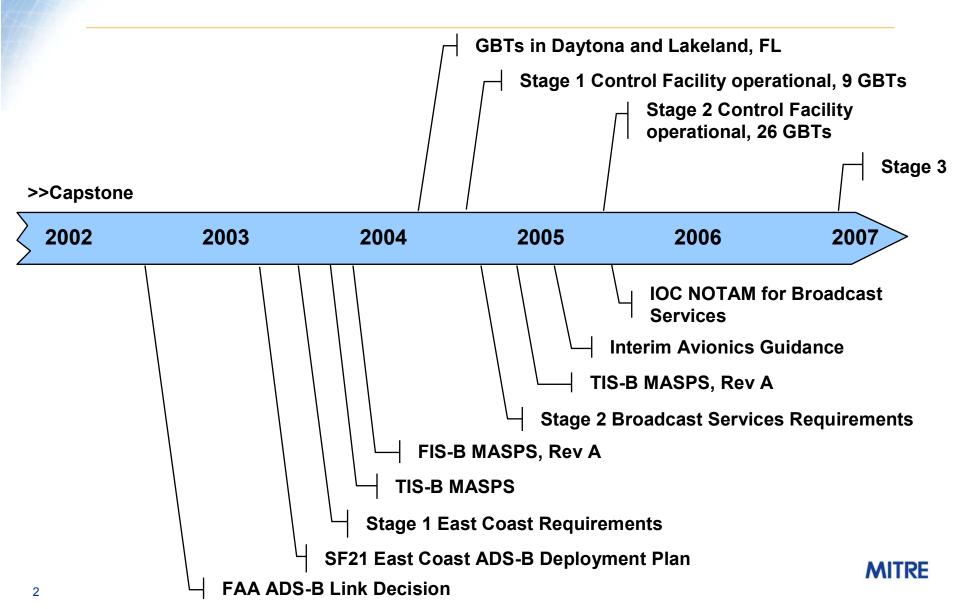
Rob Strain
ICNS Conference, Fairfax, VA
3 May 2005







Broadcast Services Implementation Time Line





Broadcast Services Implementation Stage 1 Capabilities

- Operational June 2004
- ~25 ground stations
- TIS-B Service Many system requirements met
 - Regional tracking using separate trackers
 - Multi-sensor tracking on reinforced targets
 - Basic report filtering (e.g., Mode A code)
 - ~60 radar feeds
- FIS-B Service All system requirements met
 - Graphical precipitation
 - METARs & TAFs



Broadcast Services Implementation Stage 2 Capabilities

- Operational May 2005
- ~70 ground stations
- Service Availability goal >99% (<48 hrs per event)
- TIS-B Service Most system requirements met
 - Wide area tracking using consolidated tracker
 - Multi-sensor tracking on all secondary surveillance targets
 - Full report filtering capabilities
 - Surveillance sensor monitoring
 - Service Status reporting to users
 - ~100 radar feeds
- FIS-B Service Additional products added
 - AIRMETS, SIGMETS, Convective SIGMETS, Winds Aloft
 - Graphical TFR NOTAMs on the wish list

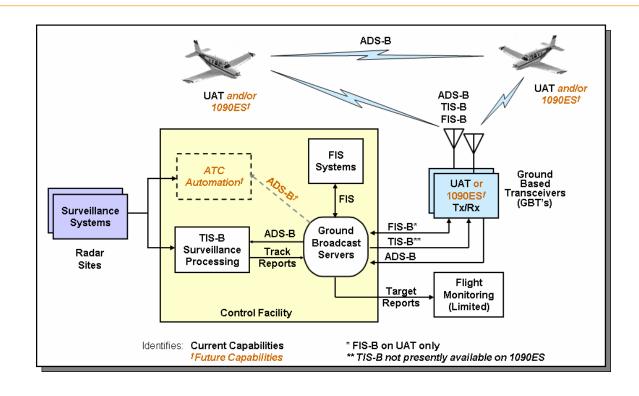


Broadcast Services Implementation Stage 3 Capabilities

- Operational in early 2007 (estimated)
- Capable of delivering national service
- ~ 500 ground stations
- Service Availability goal >99.9% (<10 min per event)
- TIS-B Service All system requirements met
 - Wide area tracking using networked trackers
 - ADS-B Rebroadcast Service (UAT and 1090ES)
 - ~300 radar feeds
- FIS-B Service Additional products added
 - Planning underway

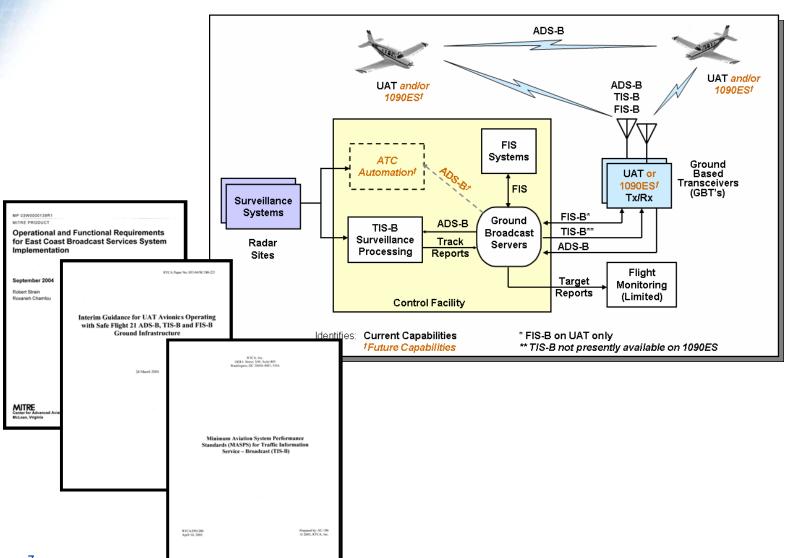


Broadcast Services Implementation System Architecture & Requirements



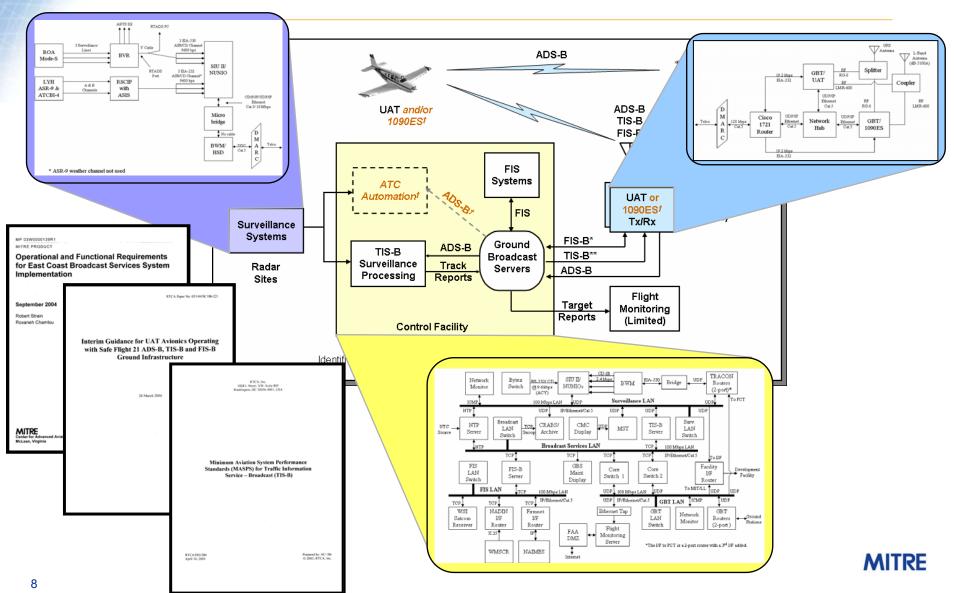


Broadcast Services Implementation System Architecture & Requirements



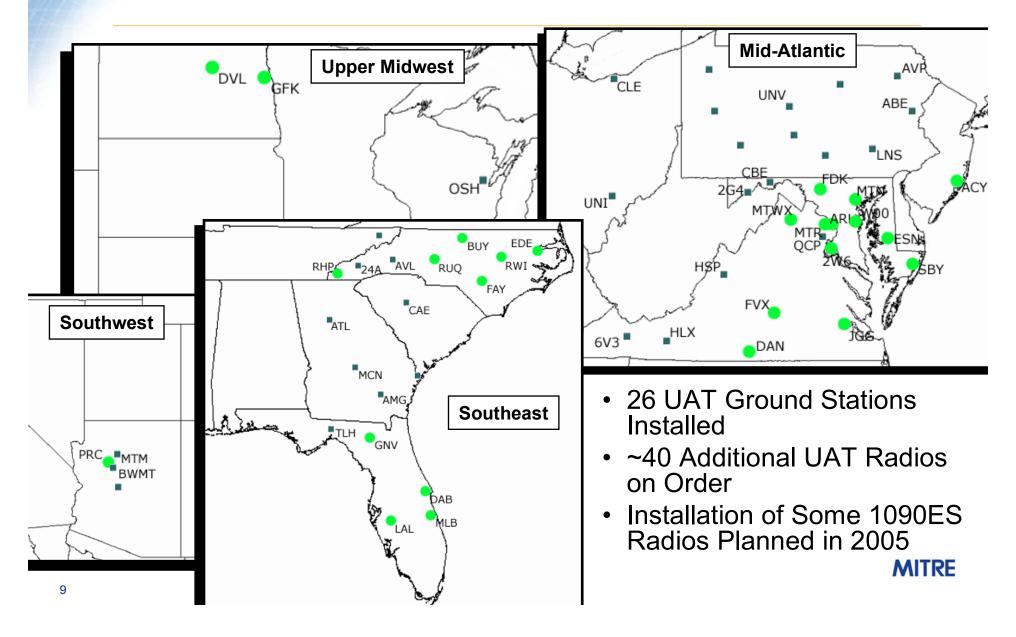


Broadcast Services Implementation System Architecture & Requirements

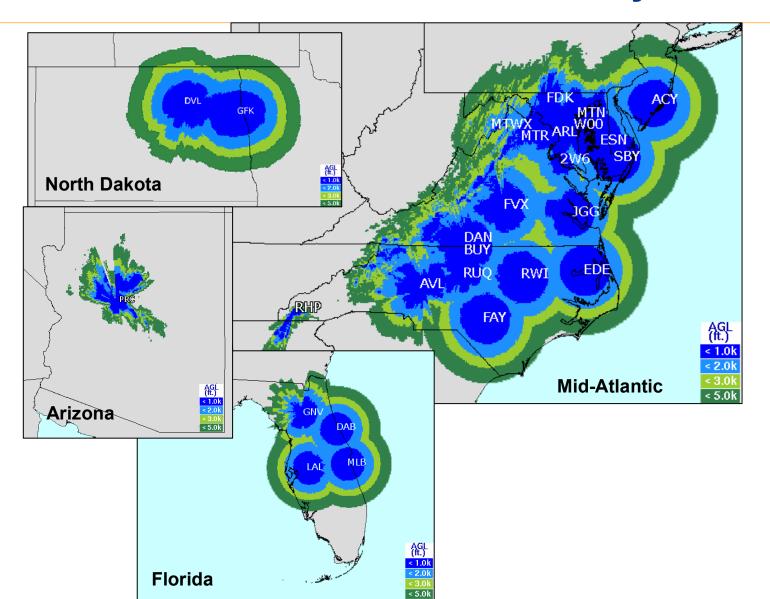




Broadcast Services Implementation Ground Station Installation Status

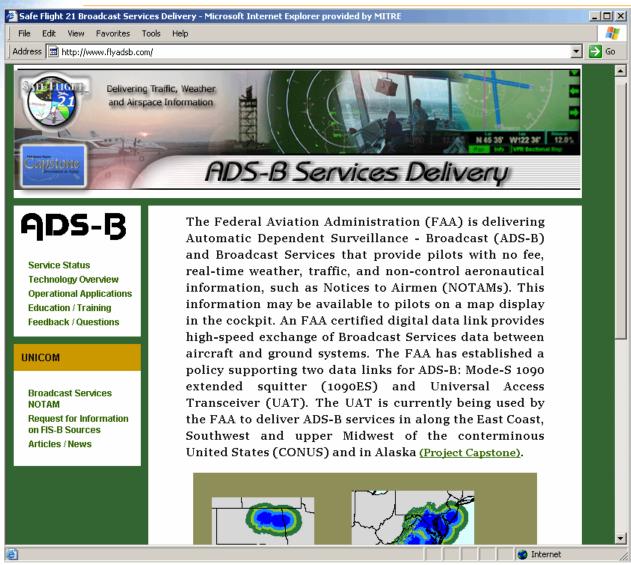


Broadcast Services Implementation Current Service Availability





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